

## CLAIMS:

1. A method of generating an output audio signal by adding output components in a predetermined first frequency range to an input signal, the output components being generated by performing a predetermined calculation, characterized in that a first output energy measure, over a predetermined first time interval, of the output components generated is set, based upon a first input energy measure calculated over a predetermined second time interval of second input components, in a predetermined third frequency range of the input audio signal.
2. A method as claimed in claim 1, wherein the third frequency range is selected from a predetermined number of frequency ranges, as the frequency range which is closest to the first frequency range according to a predetermined frequency range distance formula.
3. A method as claimed in claim 1, wherein the first output energy measure is set by further using a second input energy measure over a predetermined third time interval of third input components, in a predetermined fourth frequency range of the input audio signal.
4. A method as claimed in claim 1, wherein the predetermined calculation comprises applying a non linear function to first input components in a predetermined second frequency range of an input audio signal.
5. An apparatus for generating an output audio signal by adding output components in a predetermined first frequency range to an input audio signal, comprising calculation means for calculating the output components, characterized in that:
  - filtering means are comprised for obtaining second input components in a third frequency range of the input audio signal;
  - energy calculation means are comprised for obtaining a first input energy measure over a second predetermined time interval of the second input components and deriving therefrom a first output energy measure; and

- energy setting means are comprised for setting the energy of the output components over a first predetermined time interval substantially equal to the first output energy measure.

5 6. An audio player, comprising audio data input means for providing an input audio signal to an apparatus as claimed in claim 5, the apparatus delivering an output audio signal to signal output means.

7. Computer program for execution by a processor, describing a method as  
10 claimed in claim 1.

8. A data carrier storing a computer program for execution by a processor, the computer program describing a method as claimed in one of the claims 1 to 4.